



Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 INFORMATION

| | |
|---------------------------------|--------------------------|
| City of Jackson | TNS000000 |
| Name of MS4 | MS4 Permit Number |
| Wendy Braxter-Rhyne | wrhyne@cityofjackson.net |
| Name of Contact Person | Email Address |
| 731-425-8217 | |
| Telephone (including area code) | |
| 117 E. Main Street, Ste. 206 | |
| Mailing Address | |

| | | | |
|---------|-------|----------|--|
| Jackson | TN | 38301 | |
| City | State | ZIP code | |

What is the current population of your MS4? 65,211 (official 2010 census report)

What is the reporting period for this annual report? From 7/1/15 to 6/30/16

Received
SEP 30 2016
Division of Water Resources
Jackson Field Office

2. WATER QUALITY PRIORITIES (SECTION 3.1)

- A. Does your MS4 discharge into waters listed as impaired on TN's most current 303(d) list and/or according to the on-line GIS mapping tool? ☒ Yes ☐ No
- B. If yes, please attach a list all impaired waters within your jurisdictional area.
- C. Does your MS4's jurisdictional area contain any waterbodies where a TMDL has been approved for parameters other than pathogens, siltation and habitat alterations? If yes, please attach a list.
- D. Does your MS4 discharge to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWs)? If yes, please attach a list. ☒ Yes ☐ No
- E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWS located within your jurisdiction? ☐ Yes ☒ No

3. PROTECTION OF STATE OR FEDERALLY LISTED SPECIES (SECTION 3.2.1 General Permit for Phase II MS4s)

- A. Are there any state or federally listed species within the MS4's jurisdiction? ☐ Yes ☒ No
- B. Are any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species? ☐ Yes ☒ No
- C. Please attach any authorizations or determinations by U.S. Fish & Wildlife Service on the effect of the MS4 discharges on state or federally listed species.

4. PUBLIC EDUCATION AND PUBLIC PARTICIPATION (SECTION 4.2.1 AND 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? ☒ Yes ☐ No
- B. Is your public education program targeting specific pollutants and sources of those pollutants, such as Hot Spots? ☒ Yes ☐ No

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C. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program? Non-point and point source pollutants from residential, commercial, construction, and farming activities.

D. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period. Increase in public awareness and employee concern of stormwater pollution. Reports from the public to our city service line and direct emails.

E. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? ☒ Yes ☐ No

F. How do you facilitate, advertise, and publicize public involvement and participation opportunities? Internet, email blasts, flyers, and newspaper.

G. Do you have a webpage dedicated to your stormwater program? ☒ Yes ☐ No

If so, what is the link/URL: <http://www.cityofjackson.net/engineering/about-stormwater-management> and <http://jacksonstormwater.com/>

H. Are you tracking and maintaining records of public education, outreach, involvement and participation activities? Please attach a summary of these activities. ☒ Yes ☐ No

5. ILLICIT DISCHARGE DETECTION AND ELIMINATION (SECTION 4.2.3)

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? ☒ Yes ☐ No

B. Have you completed a map of all storm drain pipes of storm sewer system? ☐ Yes ☒ No

C. How many outfalls have you identified in your system? 457

D. Have any of these outfalls been screened for dry weather discharges? ☒ Yes ☐ No

F. What is your frequency for screening outfalls for illicit discharges? N/A

G. Do you have an ordinance that effectively prohibits illicit discharges? ☒ Yes ☐ No

H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 6

I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 60

6. CONSTRUCTION SITE STORMWATER RUNOFF (SECTION 4.2.4)

A. Do you have an ordinance or adopted policies stipulating:

Erosion and sediment control requirements? ☒ Yes ☐ No

Other construction waste control requirements? ☒ Yes ☐ No

Requirement to submit construction plans for review? ☒ Yes ☐ No

MS4 enforcement authority? ☒ Yes ☐ No

B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 13

C. How many of these active sites did you inspect this reporting period? 28

D. On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)? Weekly/Monthly

E. Do you prioritize certain construction sites for more frequent inspections? ☒ Yes ☐ No

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If Yes, based on what criteria? Active site, impaired receiving stream, past problems with contractor/developer.

7. PERMANENT STORMWATER CONTROLS (SECTION 4.2.5)

A. Do you have an ordinance or other mechanism to require:

Site plan reviews of all new and re-development projects? ☒ Yes ☐ No

Maintenance of stormwater management controls? ☒ Yes ☐ No

Retrofitting of existing BMPs with green infrastructure BMPs? ☐ Yes ☒ No

B. What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.) All projects are reviewed by Planning Dept. and Engineering Dept.

C. Have you implemented and enforced performance standards for permanent stormwater controls? ☒ Yes ☐ No

D. Do these performance standards go beyond the requirements found in Section 4.2.5.2 and require that pre-development hydrology be met for:

Flow volumes ☐ Yes ☒ No

Peak discharge rates ☐ Yes ☒ No

Discharge frequency ☐ Yes ☒ No

Flow duration ☐ Yes ☒ No

E. Please provide the URL/reference where all permanent stormwater management standards can be found.

http://www.cityofjackson.net/images/uploads/content_files/DP_Rules_Regs.pdf

F. How many development and redevelopment project plans were reviewed for this reporting period? 35

G. How many development and redevelopment project plans were approved? 35

H. How many permanent stormwater management practices/facilities were inspected? 6

I. How many were found to have inadequate maintenance? 0

J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) N/A

K. How many enforcement actions were taken that address inadequate maintenance? 0

L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? ☒ Yes ☐ No

M. Do all municipal departments and/or staff (as relevant) have access to this tracking system? ☒ Yes ☐ No

N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites? ☐ Yes ☒ No

O. How many maintenance agreements has the MS4 approved during the reporting period? 6

8. CODES AND ORDINANCES REVIEW AND UPDATE (SECTION 4.2.5.3)

A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report? ☐ Yes ☒ No

B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management. <http://www.cityofjackson.net/engineering/about-stormwater-management>. Waiting on new permit before making any policy revisions.

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9. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS (SECTION 4.2.6)

- A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:
- | | | |
|---|---|-----------------------------|
| All parks, ball fields and other recreational facilities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal turf grass/landscape management activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal vehicle fueling, operation and maintenance activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal maintenance yards | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal waste handling and disposal areas | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. Are stormwater inspections conducted at these facilities? ☐ Yes ☒ No
1. If Yes, at what frequency are inspections conducted? _____
- C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.) ☒ Yes ☐ No
- D. Do you have a prioritization system for storm sewer system and permanent BMP inspections? ☐ Yes ☒ No
- E. On average, how frequently are catch basins and other inline treatment systems inspected? Daily
- F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? Daily
- G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management? ☒ Yes ☐ No
- H. If yes, do you also provide regular updates and refreshers? ☒ Yes ☐ No
- If so, how frequently and/or under what circumstances? Yearly

10. STORMWATER MANAGEMENT PROGRAM UPDATE (SECTION 4.4)

- A. Describe any changes to the MS4 program during the reporting period including but not limited to:
- Changes adding (but not subtracting or replacing) components, controls or other requirements (Section 4.4.2.a). Added new stormwater website for PSA use: <http://jacksonstormwater.com/>
- Changes to replace an ineffective or unfeasible BMP (Section 4.4.2.b). No changes made.
- Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. No increase in urbanized area.
- Changes to the program as required by the division (Section 4.4.3). Added construction site runoff complaints to work order database.

11. EVALUATING/MEASURING PROGRESS

- A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

| Indicator | Began Tracking (year) | Frequency | Number of Locations |
|-------------------------|-----------------------|-------------------------------|---------------------|
| <i>Example: E. coli</i> | <i>2003</i> | <i>Weekly April–September</i> | <i>20</i> |

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- B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. N/A

12. ENFORCEMENT (SECTION 4.5)

- A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

| Action | Construction | Permanent Stormwater Controls | Illicit Discharge | Authority? | |
|-----------------------|--------------|-------------------------------------|----------------------|---|--|
| Notice of violation | # <u>10</u> | # <u>0</u> | # <u>0</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Administrative fines | # <u>0</u> | # <u>0</u> | # <u>0</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Stop Work Orders | # <u>0</u> | # <u>0</u> | # <u>0</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Civil penalties | # _____ | # _____ | # _____ | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Criminal actions | # _____ | # _____ | # _____ | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Administrative orders | # _____ | # _____ | # _____ | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Other _____ | # _____ | # _____ | # _____ | | |

- B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction? ☒ Yes ☐ No

- C. What are the 3 most common types of violations documented during this reporting period? Silt fence repair, no construction entrance, sediment off site, no inlet protection.

13. PROGRAM RESOURCES (OPTIONAL)

- A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? 105,967.40
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? 105,967.40
- C. Do you have an independent financing mechanism for your stormwater program? ☐ Yes ☒ No
- D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?
- Source: _____ Amount \$ _____
- Source: _____ Amount \$ _____
- E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 1

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F. Do you share program implementation responsibilities with any other entities? ☒ Yes ☐ No

| Entity | Activity/Task/Responsibility | Your Oversight/Accountability Mechanism |
|-----------------------------|---|---|
| Keep Jackson Beautiful | Area Cleanups, Earth Day Festival, Clean Water Runoff 5K, Public Events | Location, volunteers, advertising, supplies |
| Health and Sanitation Dept. | HHW Collection Event (Spr/Fall) Inlet Cleaning | Location, volunteers, advertising, supplies Drainage reports, public calls |
| Building Dept. | Plumbing Code Violations | Illegal connections, public calls |
| Fire Dept. | Hazardous Moving Spills | Public/EMA calls |
| Risk Management Dept. | Employee Training | Municipal SW training for employees |

G. Please attach a copy of your Organizational Chart

14. CERTIFICATION

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

SAMUEL L. DAWSON
Printed Name and Title
Asst to Mayor


Signature

9-30-16
Date

Annual reports must be submitted in accordance with the requirements of Section 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

| EFO | Street Address | City | Zip Code | Telephone |
|--------------|---------------------------------|--------------|----------|----------------|
| Chattanooga | 1301 Riverfront Pkwy, Suite 206 | Chattanooga | 37402 | (423) 634-5745 |
| Columbia | 1421 Hampshire Pike | Columbia | 38401 | (931) 380-3371 |
| Cookeville | 1221 South Willow Ave. | Cookeville | 38506 | (931) 432-4015 |
| Jackson | 1625 Hollywood Drive | Jackson | 38305 | (731) 512-1300 |
| Johnson City | 2305 Silverdale Road | Johnson City | 37601 | (423) 854-5400 |
| Knoxville | 3711 Middlebrook Pike | Knoxville | 37921 | (865) 594-6035 |
| Memphis | 8383 Wolf Lake Drive | Bartlett | 38133 | (901) 371-3000 |
| Nashville | 711 R S Gass Boulevard | Nashville | 37216 | (615) 687-7000 |

2. Water Quality Priorities (Section 3.1)

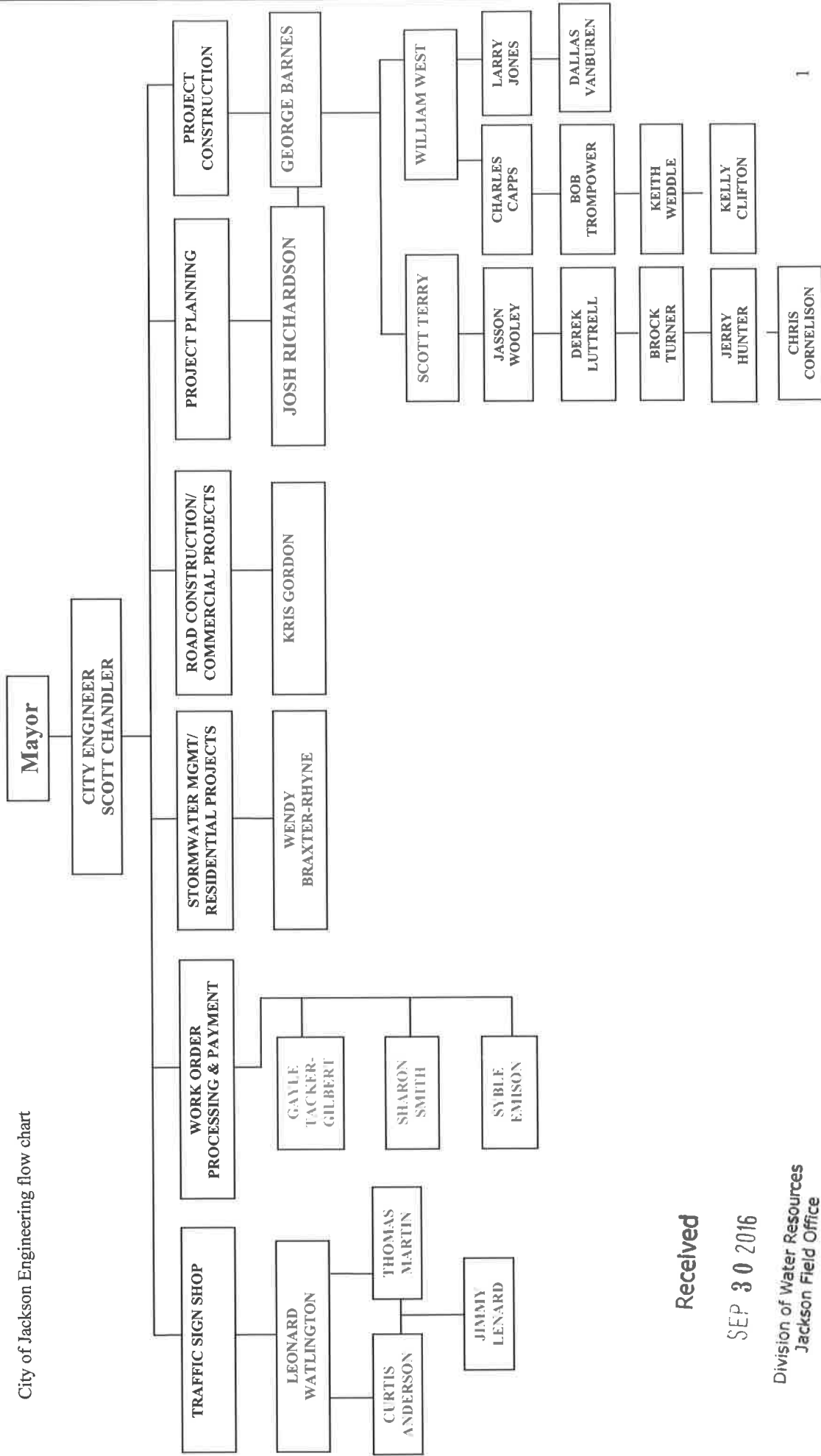
B. List all impaired waters within your jurisdictional area.

| Waterbody I.D. | Impacted Waterbody | Cause/ TMDL Priority | Pollutant Source | TMDL Approved |
|------------------------|------------------------------|---|---|---------------|
| TN08010205 012-0400 | Sandy Creek | <ul style="list-style-type: none"> Loss of biological integrity due to siltation Physical Substrate Habitat Alterations. Escherichia coli | <ul style="list-style-type: none"> Discharges from MS4 area Channelization | Yes |
| TN08010205 012-0500 | Central Creek | <ul style="list-style-type: none"> Physical Substrate Habitat Alterations. Escherichia coli | <ul style="list-style-type: none"> Discharges from MS4 area Channelization | Yes |
| TN08010205 012-0600 | Anderson Branch Creek | <ul style="list-style-type: none"> Alteration in stream-side or littoral vegetative cover. Escherichia coli | <ul style="list-style-type: none"> Discharges from MS4 area Collection System Failure | Yes |
| TN08010205 012-0700 | Bond Creek | <ul style="list-style-type: none"> Alteration in stream-side or littoral vegetative cover. Escherichia coli | <ul style="list-style-type: none"> Discharges from MS4 area Streambank Modifications | Yes |
| TN08010205 012-0900 | Hicks Creek | <ul style="list-style-type: none"> Loss of biological integrity due to siltation | <ul style="list-style-type: none"> Sand/Rock/Gravel Mining | No |
| TN08010205 012-1000 | South Fork Forked Deer River | <ul style="list-style-type: none"> Total Phosphorus Loss of biological integrity due to siltation Physical Substrate Habitat Alterations Escherichia coli | <ul style="list-style-type: none"> Discharges from MS4 area Non-irrigated Crop Production Dredge Mining Sand/Rock/Gravel Mining Land Development Channelization | Yes |

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City of Jackson Engineering flow chart



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